Załacznik nr 1

Course name:

Food safety and quality management

ECTS	5.0
Course status	basic, obligatory
Course final assessment /evaluation of outcomes	Exam
Prerequisite	No prerequisites

Main field of study:

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Educational profile	General academic	
Code of studies and education level	SI/SM	
Semester of studies	7/winter	
Language of instruction	English	

Course offered by:

Name of faculty offering the course	Faculty of Food Technology	
Name of department offering the course	Department of Plant Products Technology and Nutrition	
	Hygiene	
Course coordinator	dr hab. inż. Piotr Gębczyński, prof. URK	

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*
	KNOWLEDGE – student knows and understands		
ZBJ_W1	physical, chemical and microbiological hazards in food and ways to control them (good practice systems - GxP, HACCP, ISO 22000), rules and stages of implementing the HACCP system and ISO 22000 standards	TŻ1_W09	RT
ZBJ_W2	the ISO 9000 standard, the structure and method of creating the Quality Manual, the principles of documenting quality management systems	TŻ1_W09	RT
	SKILLS – student is able to		
ZBJ_U1	develop the essential elements of the HACCP system, including: selecting members of an interdisciplinary team, preparing a description of the product covered by the system and determining its intended use, developing a flow diagram, identifying potential hazards and analysing them to designate a CCP, select an exemplary monitoring method and corrective actions for to the selected CCP and record the above in the form of HACCP documentation.	TŻ1_U03 TŻ1_U05 TŻ1_U11	RT
ZBJ_U2	develop a manual for a selected action and a procedure for an example process and construct a Quality Manual.	TW1_U03	RT

SOCIAL COMPETENCIES – student is ready to:			
ZBJ_K1 work in a team, taking on different rules in it, skilfully manages time,		TŻ1_K02	RT
ZBJ_K2	inform the public about activities related to the production of safe food	TŻ1_K05	RT

Teaching contents

Teaching c	Uniterita				
Lectures		30 hours			
		research, Codex Alimentarius, food safety systems - GMP,			
		GHP, HACCP. Food hazards.			
		HACCP system implementation stages, and how to develop the			
	HACCP system.				
		CP system, audit, application of the HACCP system at various			
	stages of the food chain, ISC				
Topics	Stages and concepts in qua	lity management, principles, methods and tools in quality			
	management.				
	, , ,	o ISO 9000. Implementation of quality systems. Process			
		nt, implementation and improvement. Certification.			
	Quality book, documentation				
	Principles of food law, EU re	egulations on food safety, contamination, adulteration, food			
	labelling, and food control.				
Accomplis	hed learning outcomes	ZBJ_W1; ZBJ_W2; ZBJ_K2			
Means of v	verification, rules and criteria	Written exam; for a positive assessment, students should			
of assessn	nent	provide at least 51% of correct answers to the questions.			
		Exam participates in 50% of the subject's final grade.			
Classes:		15 hours			
		team, defining (describing) the product, determining the			
	intended use of the product, drawing up a flow diagram, and verifying the chart based on				
	the prepared plan of the production part.				
	Preparation of a list of hazards for each stage of the technological process, a list of control				
	and preventive measures and an assessment of risks using a priority analysis.				
Topics	Establishment of Critical Control Points (CCPs). For the selected CCP, setting the				
		cal limits and the method of the monitoring system, developing			
	documentation of the action				
		ns, writing a sample instruction.			
		of formulating procedures, writing an example procedure. The			
	form and ways of construction				
Accomplis	hed learning outcomes	ZBJ_U1; ZBJ_U2; ZBJ_K1; ZBJ_K2			
Means of verification, rules and criteria Students pass exercises based on: - tea		Students pass exercises based on: - team (in subgroups)			
of assessn	nent	preparation of a project covering elements of the HACCP			
		system - share in the final module evaluation - 25%, - team			
		(in subgroups) practice of the draft procedure and instructions			
		- share in the final module evaluation - 25%.			

References:

Basic	1. Codex Alimentarius. 2021. General principles of food hygiene. CXC 1	1-1969					
	Adopted in 1969. Amended in 1999. Revised in 1997, 2003,	2020					
	https://www.fao.org/fao-who-codexalimentarius/en/						

	2. Cochran C. ISO 9001:2015 in Plain English. Paton Professional. Chico, USA (book available from the course coordinator)
Supplementary	 Mortimor S., Walllace C. 2013. HACCP. A practical approach. Springer (The book is available at the University's Main Library (e-resources) or from the course coordinator). Mukherjee S.P. 2019. Quality. Domains and dimensions. Springer (The book is available at the University's Main Library (e-resources) or from the course coordinator)

Structure of learning outcomes

Area of academic study: R – Agricultural,		ECTS **
forestry and veterinary sciences		
Area of academic study: T – technological		
sciences	5,0	ECTS**

Structure of student activity

Contact hours		49	hrs.	2.0	ECTS**
Including:	lectures	30	hrs.		
	classes and seminars	15	hrs.		
	consultations	2	hrs.		
	participation in research	0	hrs.		
	obligatory traineeships	0	hrs.		
	participation in examination	2	hrs.		
e-learning		0	hrs.	0.0	ECTS**
student own work		76	hrs.	3.0	ECTS**

^{*}Areas of academic study in the fields of: H- humanities; S - social studies; P - biological sciences; T - technological sciences; M- medical, sport and health sciences; R - Agricultural, forestry and veterinary sciences; A - the arts ** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes